

FIG. 2A

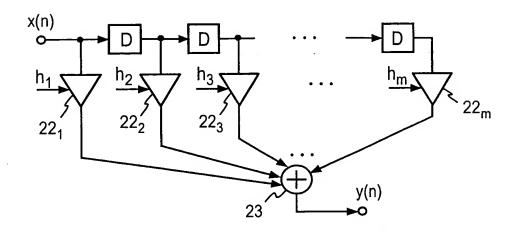


FIG. 2B

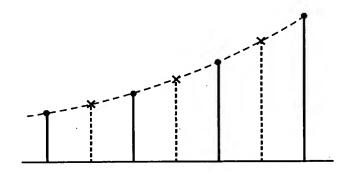


FIG. 2C

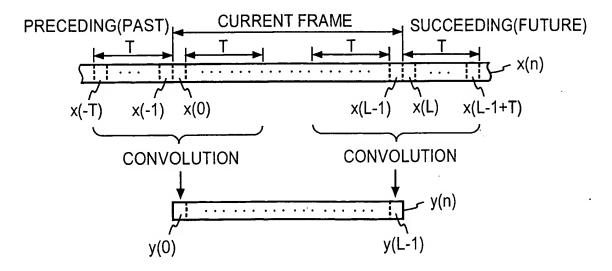


FIG. 3A

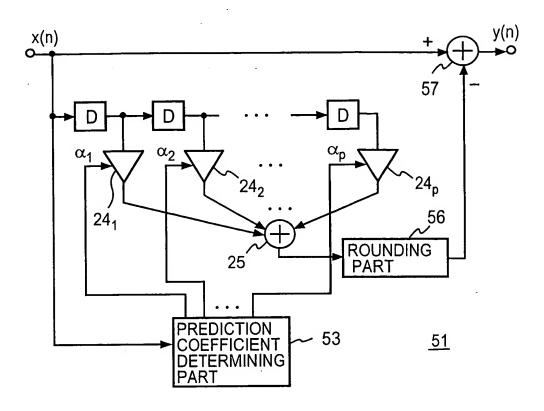


FIG. 3B

100

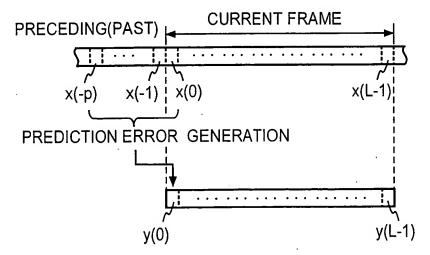


FIG. 4A

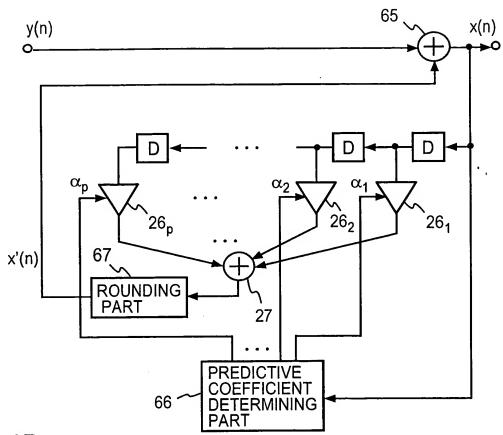


FIG. 4B

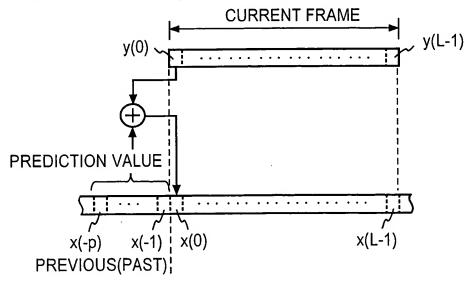


FIG. 5A

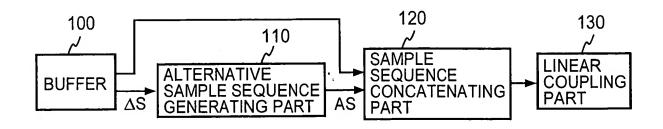


FIG. 5B

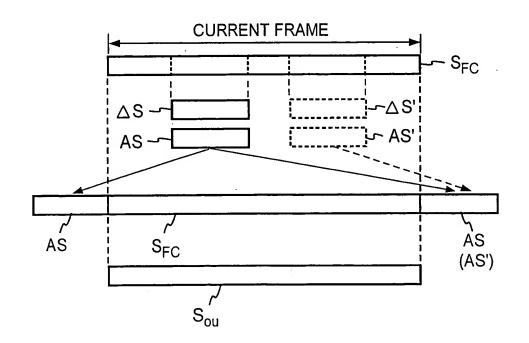
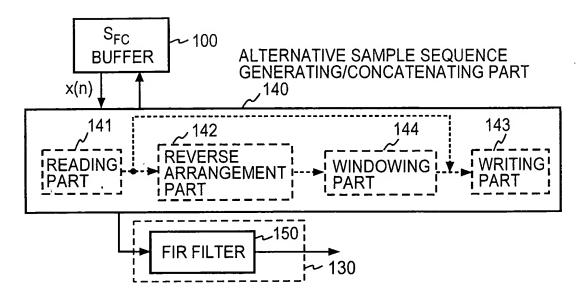
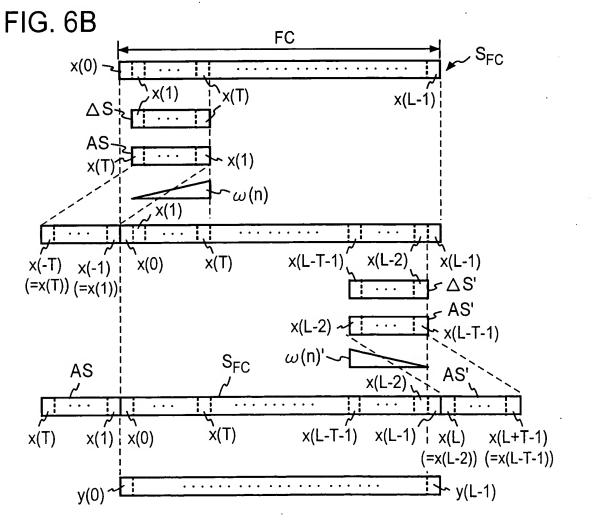


FIG. 6A





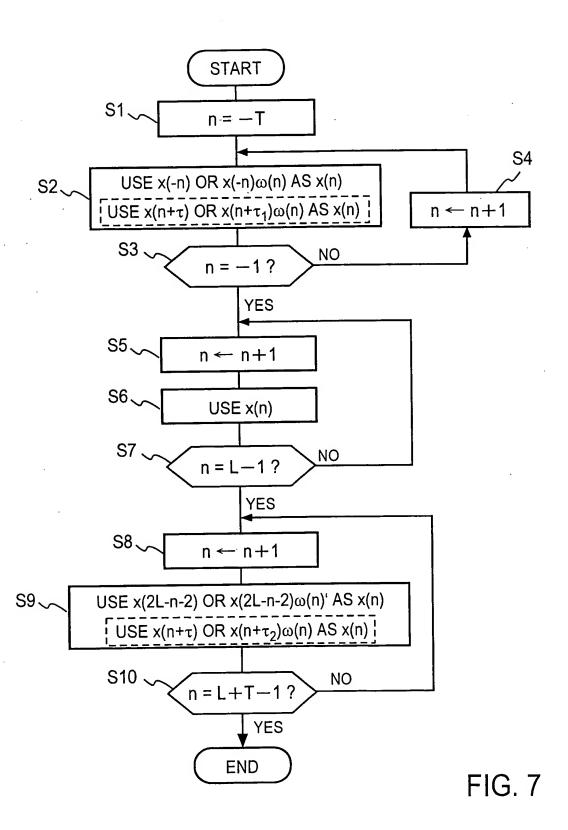


FIG. 8A

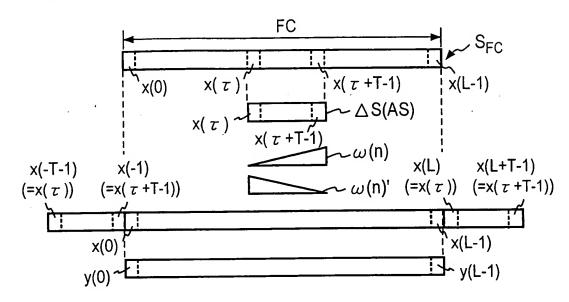


FIG. 8B

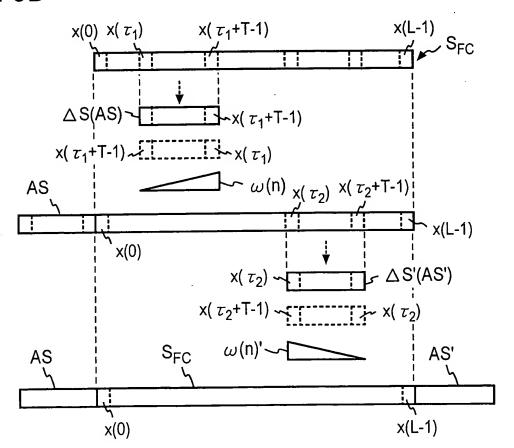


FIG. 9A

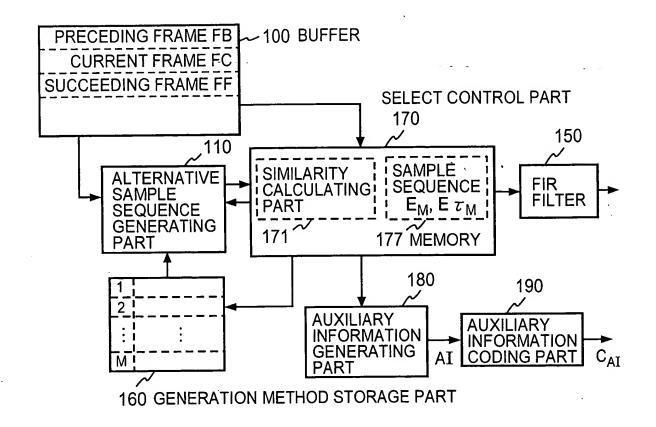
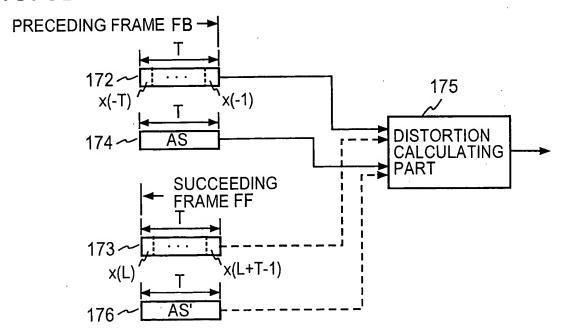
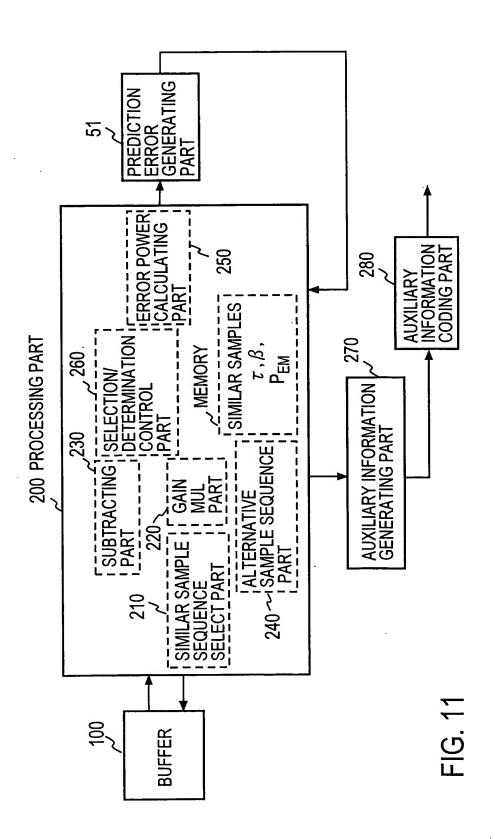


FIG. 9B



10/41 **START** m = 1**S1** $(\tau = 0)$ S2 SET METHOD m GENERATE ALTERNATIVE SAMPLE SEQUENCES AS, AS' S3 CALCULATE SIMILARITY $E_m(E_\tau)$ **S9** $E_M < E_m$? NO $(E\tau_{\mathsf{M}} < E\tau$?) $m \leftarrow m+1$ YES $(\tau \leftarrow \tau + 1)$ $E_M \leftarrow E_m$ **S6** $(\mathsf{E}\tau_\mathsf{M}^{\cdots}\leftarrow\mathsf{E}\tau^{\circ})$ UPDATE/STORE ALTERNATIVE SAMPLE SEQUENCE S8 m = M? NO $\tau = L - T - 1?$ YES CONCATENATE STORED ALTERNATIVE SAMPLE SEQUENCE TO S_{FC} **S11** FIR FILTERING **S12** GENERATE AUXILIARY INFORMATION FIG. 10 **END**

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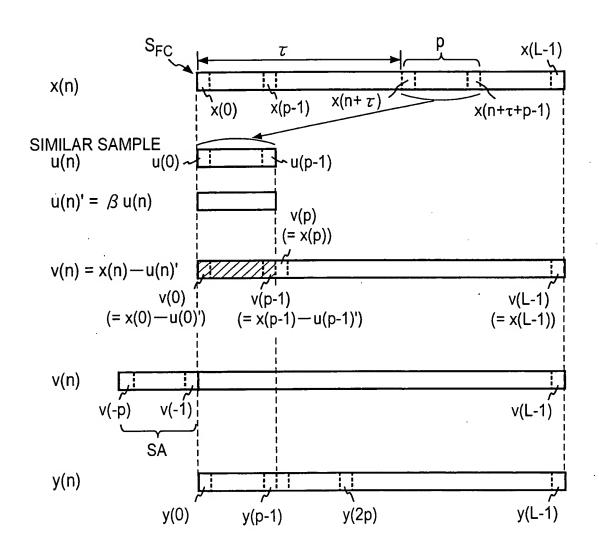


FIG. 12

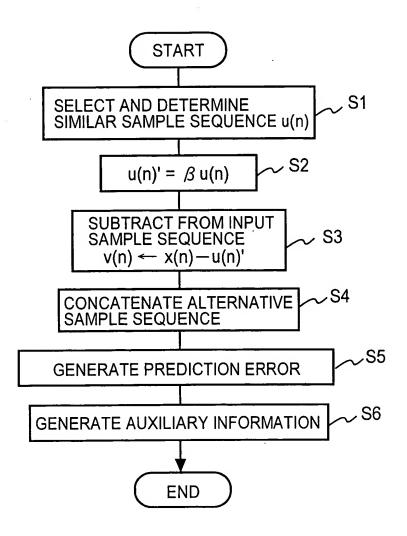
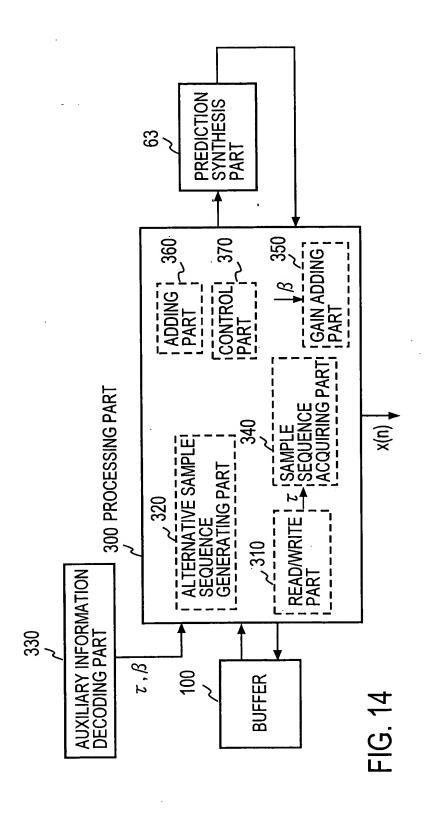


FIG. 13



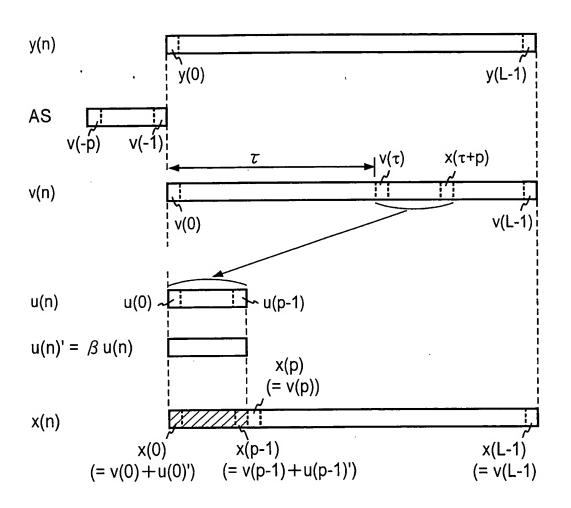
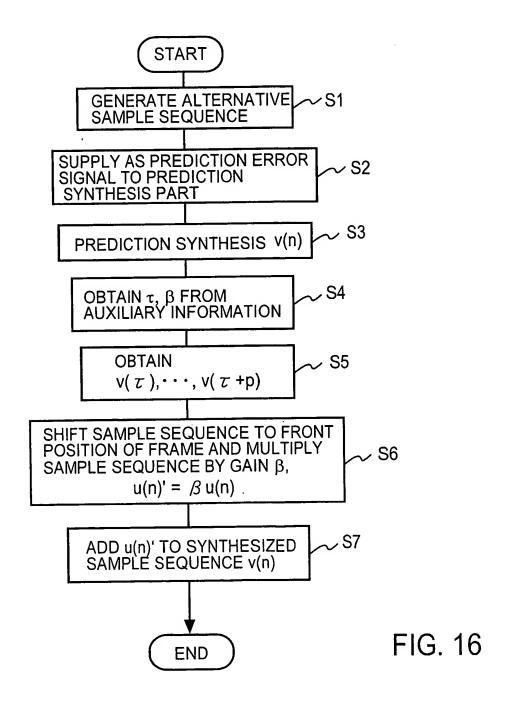


FIG. 15

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OBLON ET AL (703) 413-3000 DOCKET #2726/8USSHEET/20F4/ 17/41

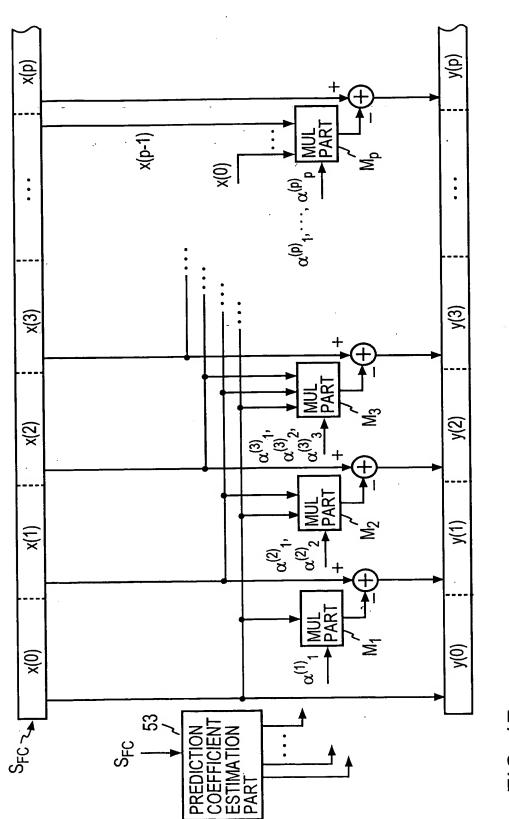
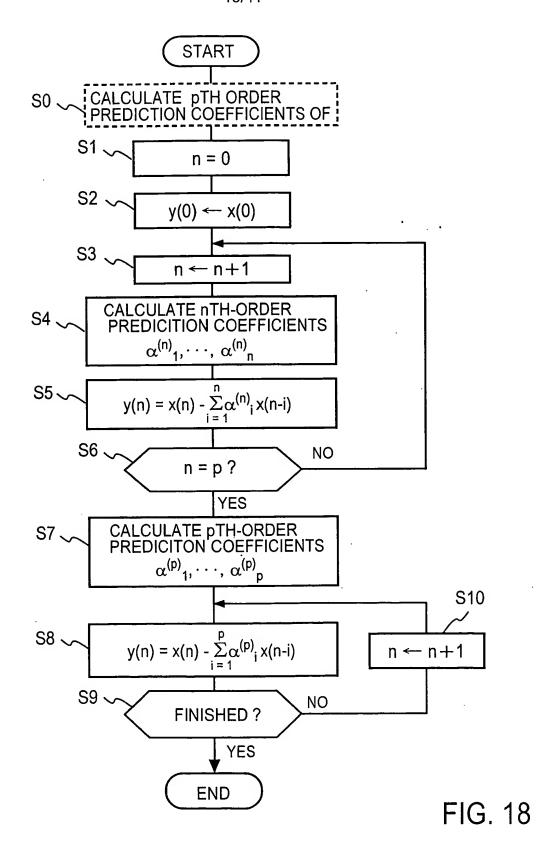


FIG. 17

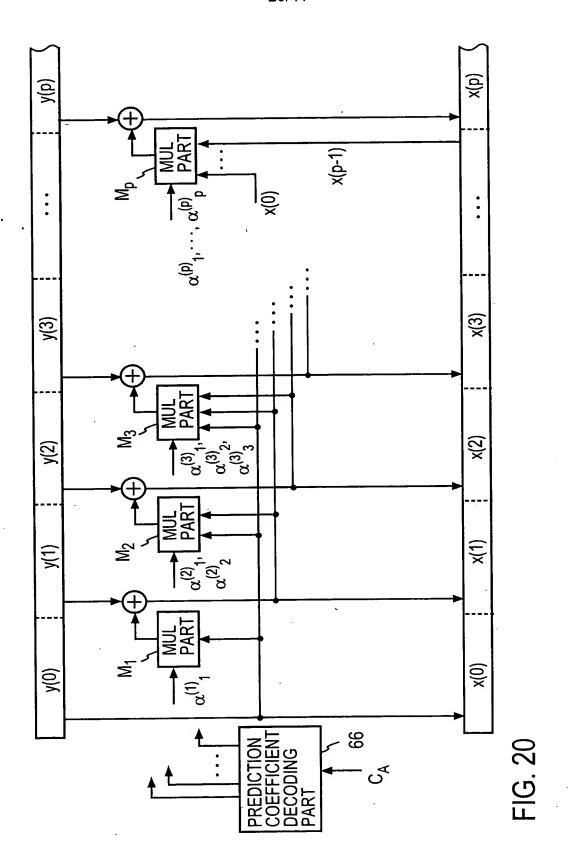


OBLON ET AL (703) 413-3000 DOCKET #2726/8US SHEET /90F4/ 19/41

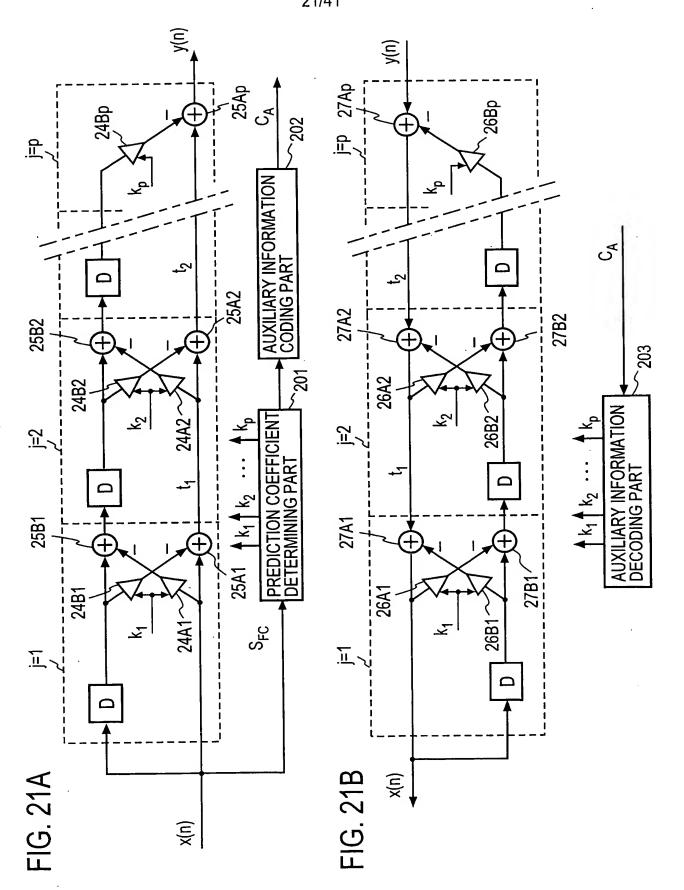
| n | α ⁽ⁿ⁾ 1 | $\alpha^{(n)}_2$ | • | | α ⁽ⁿ⁾ _{p-1} | $\alpha^{(n)}_p$ |
|-----|----------------------|---|----------------------|-----|---------------------------------|--------------------|
| 0 | 0 | 0 | <u>-</u> - | | 0 | 0 |
| 1 | $\alpha^{(1)}_{1}$ | 0 . | | | 0 · | 0 |
| | 1 1 1 | 1 | | · V | ! ! ! | 1 1 1 1 |
| p-2 | α ^(p-2) 1 | $\alpha^{(p-2)}_{2}$ | $\alpha^{(p-2)}_{3}$ | | 0 | 0 |
| p-1 | α ^(p-1) 1 | $\alpha^{(p-1)}_2$ | $\alpha^{(p-1)}_{3}$ | | $\alpha^{(p-1)}_{p-1}$ | 0 |
| р | α ^(p) 1 | $\alpha^{(p)}_2$ | $\alpha^{(p)}_3$ | | $\alpha^{(p)}_{p-1}$ | $\alpha^{(p)}_{p}$ |
| p+1 | α ^(p) 1 | $\alpha^{(p)}_2$ | $\alpha^{(p)}_3$ | | α ^(p) p-1 | $\alpha^{(p)}_{p}$ |
| 1 | , | i I | 1 1 1 | | 1 1 | 1 1 1 |
| L-1 | α ^(p) 1 | α ^(p) 2 | $\alpha^{(p)}_3$ | | α ^(p) _{p-1} | $\alpha^{(p)}_{p}$ |

FIG. 19

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DOCKET #2726/805 SHEET 2Z OF 4/

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| | | | | · |
|-----|----------------|----------------|---|---|
| n | k ₁ | k ₂ | k _{p-1} | k _p |
| 0 | 0 | 0 | 0 | 0 |
| 1 | k ₁ | 0 | 0 | 0 |
| 2 | k ₁ | k_2 | 0 | 0 |
| | | | 1 | 1 |
| p-1 | k ₁ | k_2 | . k _{p-1} | 0 |
| р | k ₁ | k_2 | k _{p-1} | k_p |
| p+1 | k ₁ | k ₂ | k _{p-1} | k_p |
| | 1 1 | i : 1 | 1 | 1 1 1 |
| L-1 | k ₁ | k ₂ | k _{p-1} | k _p |

FIG. 22

OBLON ET AL (703) 413-3000

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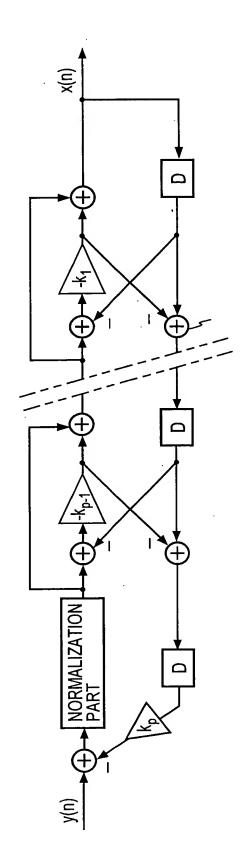


FIG. 23

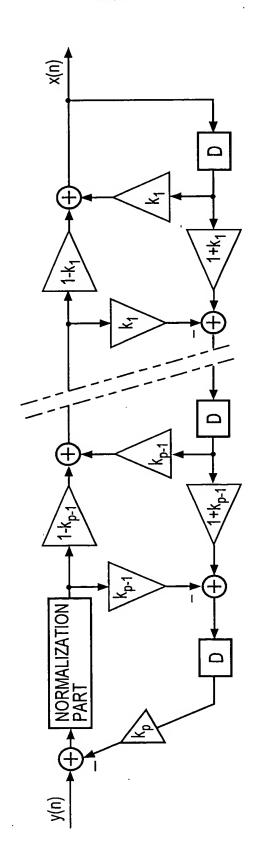


FIG. 24

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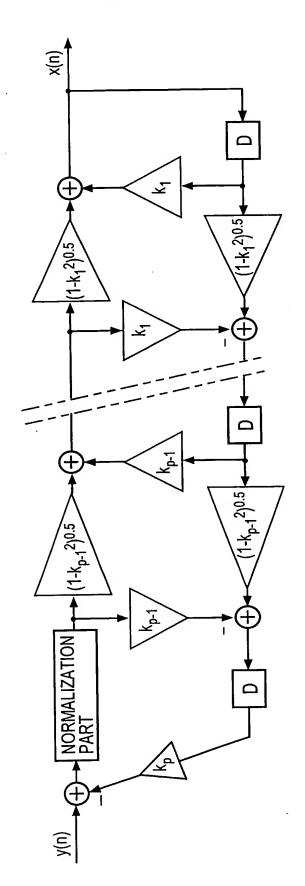
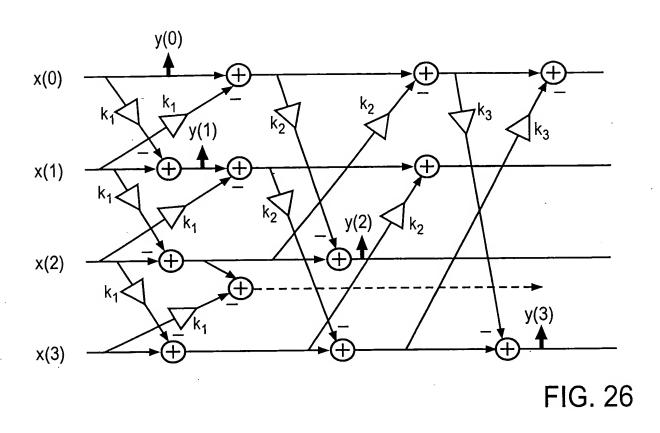


FIG. 25

OBLON ET AL (703) 413-3000 DOCKET #272618USHEET260F41 26/41



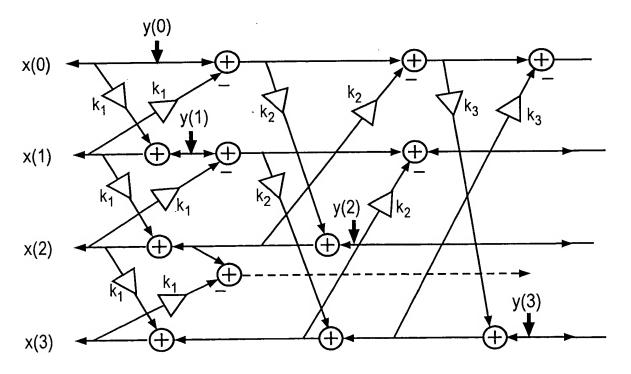


FIG. 27

OBLON ET AL (703) 413-3000 DOCKET #272618U5 SHEEP270F41

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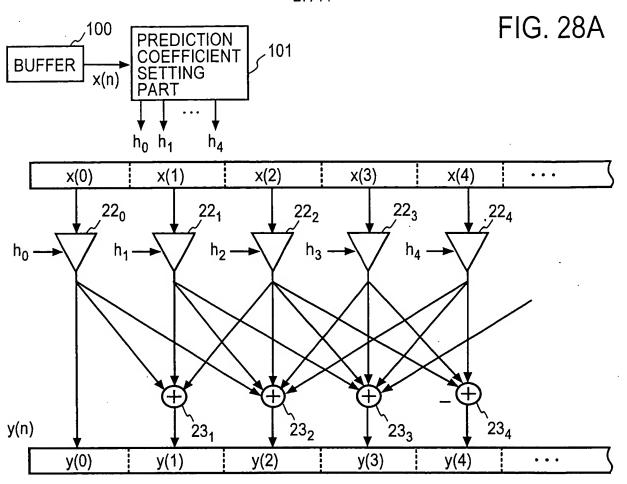


FIG. 28B

| h | h ₀ | h ₁ | h ₂ | h ₃ | h ₄ |
|-----|----------------|----------------|----------------|----------------|----------------|
| 0 | h _o | 0 | 0 | 0 | 0 |
| 1 | h ₀ | h ₁ | h_2 | 0 | 0 |
| 2 | h ₀ | h ₁ | h_2 | h_3 | h_4 |
| 3 | h ₀ | h ₁ | h_2 | h ₃ | h_4 |
| | : | : | • | : | : |
| L-3 | h ₀ | h ₁ | h ₂ | h_3 | h ₄ |
| L-2 | h ₀ | h ₁ | h_2 | 0 | 0 |
| L-1 | h ₀ | 0 | 0 | 0 | 0 |

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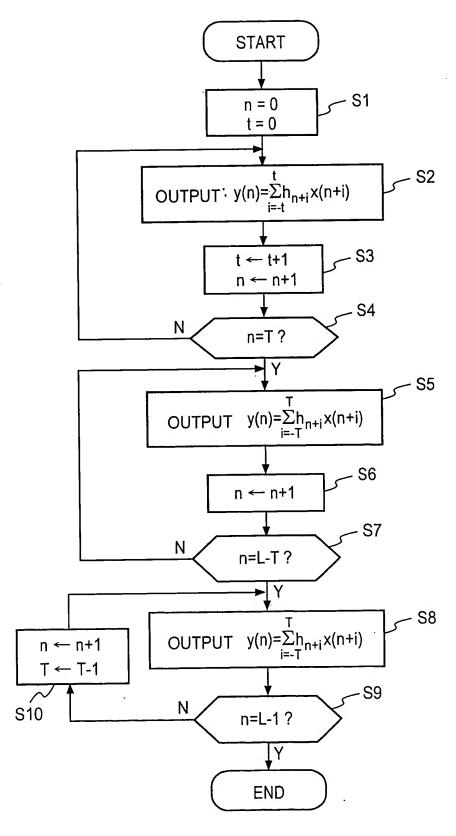
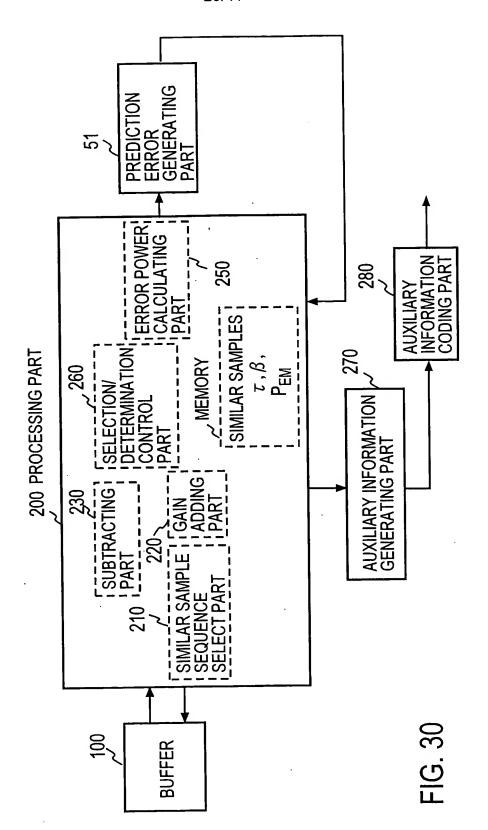


FIG. 29

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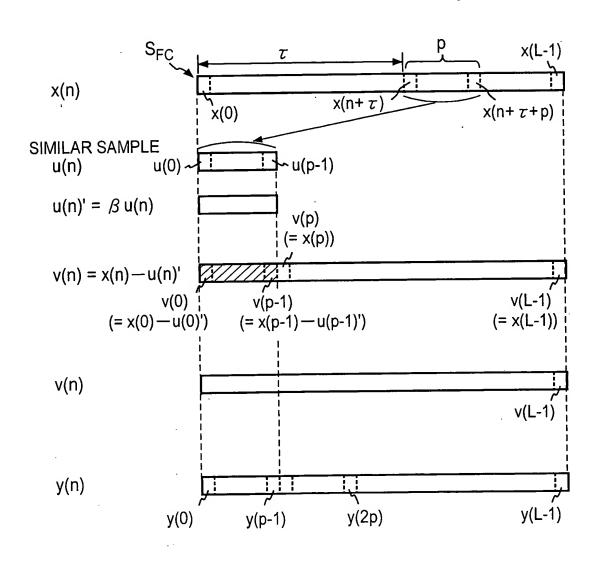


FIG. 31

OBLON ET AL (703) 413-3000

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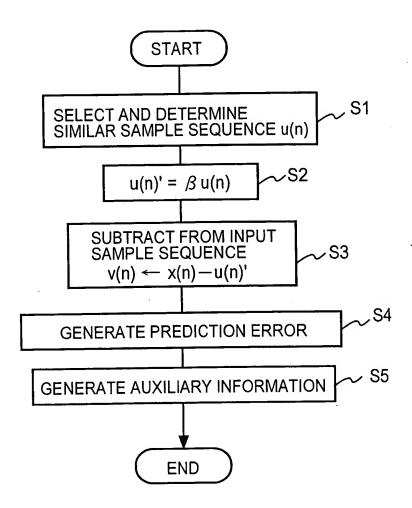
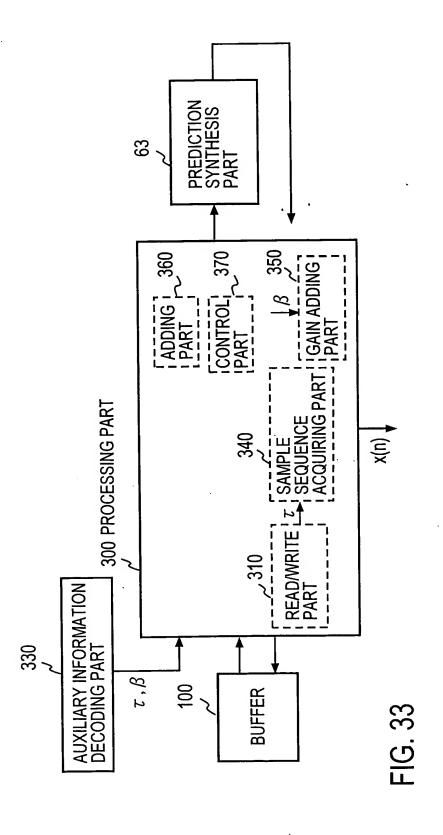


FIG. 32



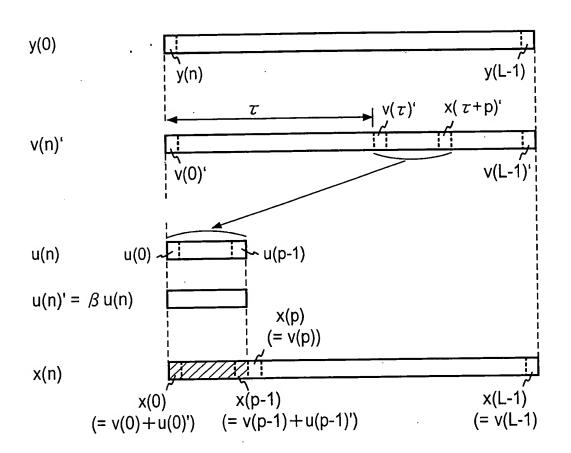


FIG. 34

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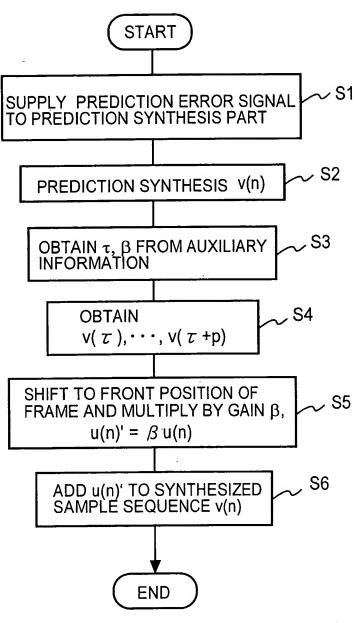


FIG. 35

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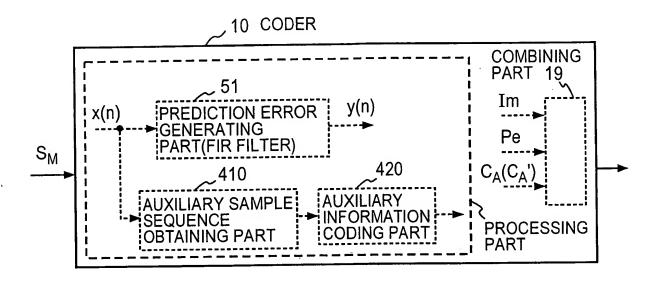
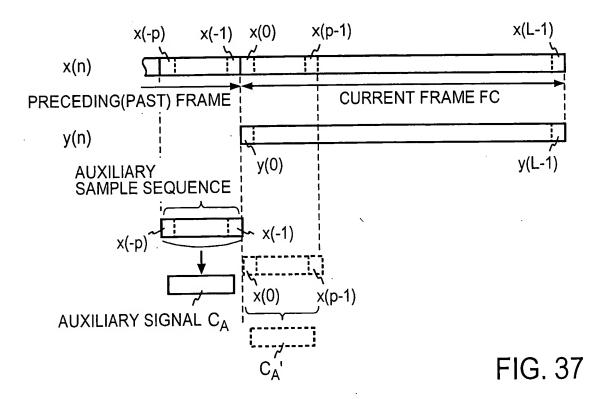


FIG. 36



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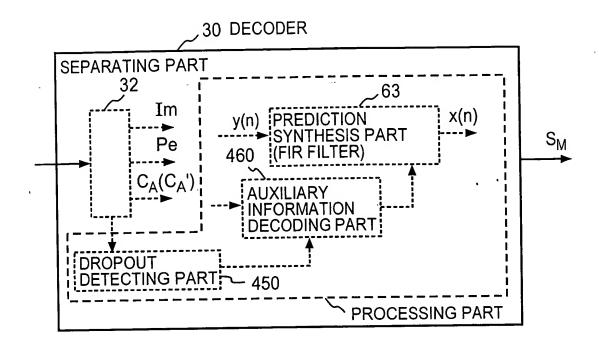


FIG. 38

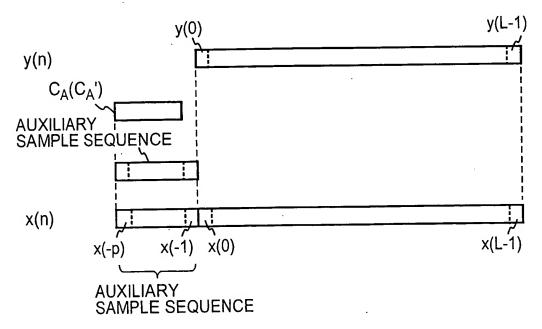


FIG. 39

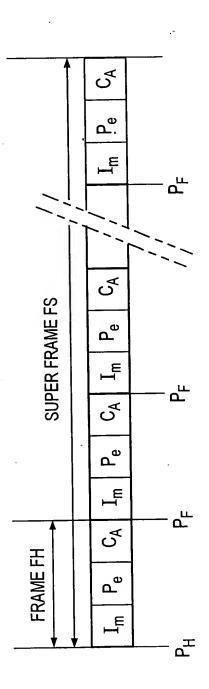


FIG. 40

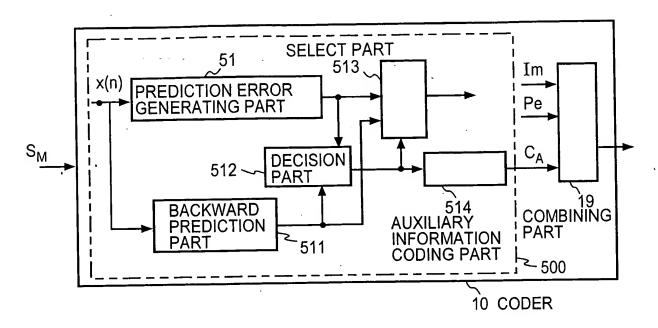


FIG. 41A

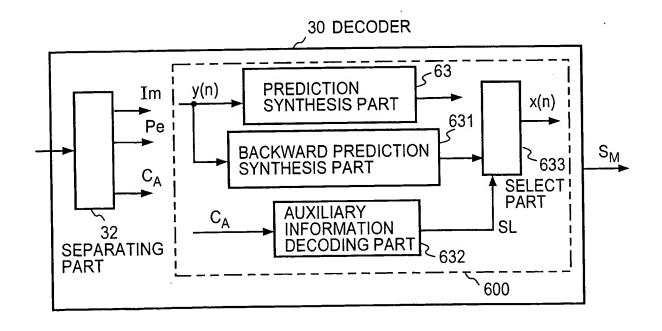


FIG. 41B

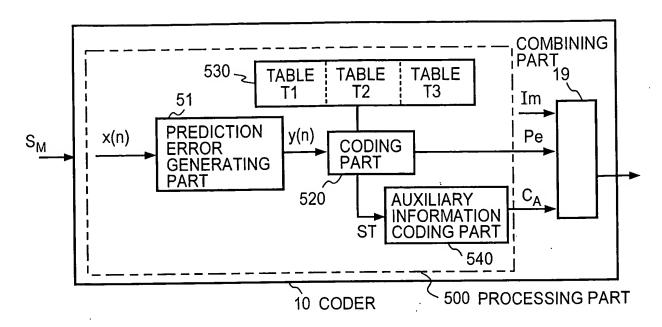


FIG. 42A

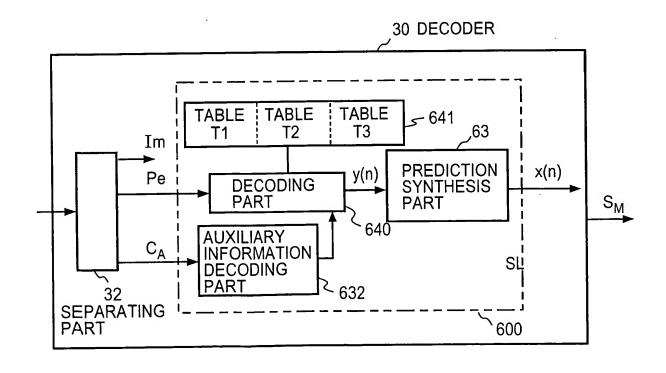


FIG. 42B

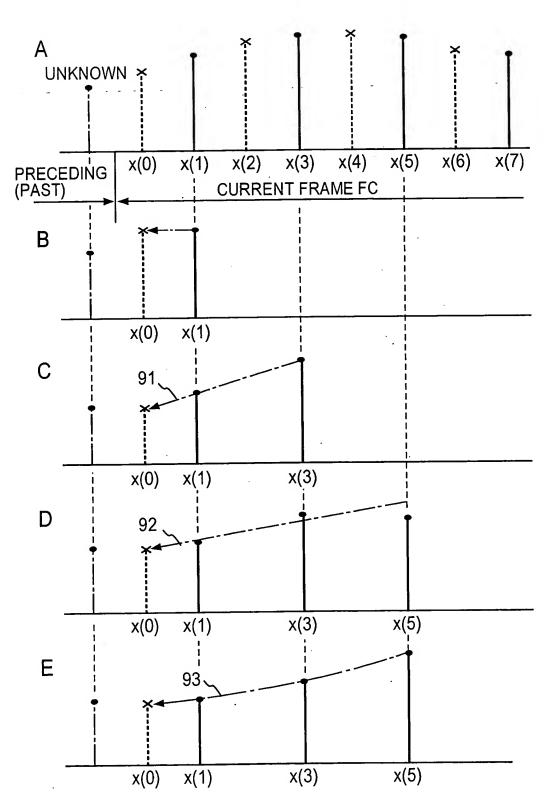


FIG. 43

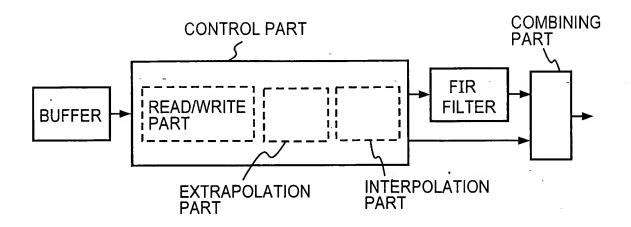


FIG. 44